DAVEY

FRILL-NECK

WIZARD®

Automatic Pool Cleaner

Installation and Operating Instructions

Please pass these instructions on to the operator of this equipment.

DEPEND ON DAVEY WATER PRODUCTS

E-mail: sales@davey.com.au
Website: davey.com.au

DAVEY FRILL-NECK WIZARD®

Automatic Pool Cleaner

Congratulations on the purchase of your Davey Frill-NeckWIZARD® automatic pool cleaner. Your new Frill-NeckWIZARD® has been designed for hassle-free surface maintenance of all popular above and below ground pools, so you can simply relax and enjoy swimming in a clean pool!

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IMPORTANT NOTE: PLEASE READ THESE INSTALLATION & OPERATING INSTRUCTIONS. To get the best performance from your Frill-NeckWIZARD® it is essential that you set up the pool cleaner properly.

PACKING LIST:

Included with your Frill-NeckWIZARD® are the following parts:

1. Frill-NeckWIZARD® Head Unit
2. 12 x Hose Sections
3. Surface Cleaning Frill
4. Deflector Ring
5. Bumper
6. Hose Weight Ring
7. Hose protector Ring
8. Alternative 'Slippery Surface' Footpad
9. Automatic Weir Valve
10. 2 x 45º Angle Joints
11. Universal Weir Adaptor
12. Flow Meter

Flow Rate Requirement

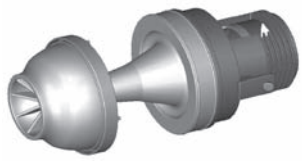
For optimum cleaning performance, your Frill-NeckWIZARD® automatic pool cleaner requires 60-70 litres per minute (lpm) of flow from the pool pump.

Your Frill-NeckWIZARD® Pool Cleaner

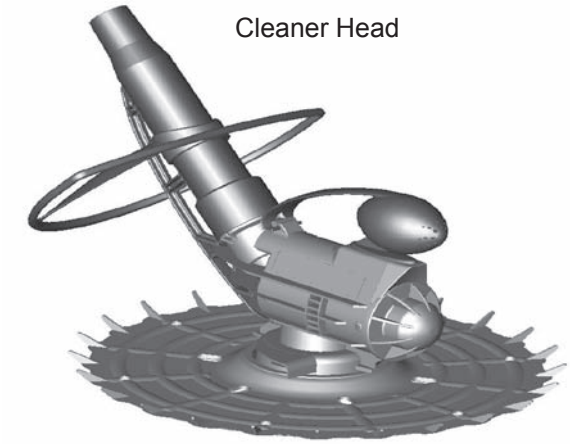
1. Frill-NeckWIZARD® Cleaner Head and Engine Unit:

The Frill-NeckWIZARD® utilises a unique piston-action engine in the cleaner head that propels the pool cleaner in a strong and constant forward motion. Suction from your pool pump draws up dirt and small debris off the pool floor, through the throat of the head unit, and then via the hose to the filter.

Engine Unit

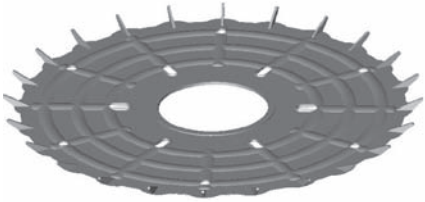


Cleaner Head



2. **Surface Cleaning Frill and Footpad:** Captures debris from the pool floor in the vacuum field whilst scrubbing the pool floor clean.

Cleaning Frill



Foot Pad

3. **Deflector Ring:** Assists the Frill-NeckWIZARD® in negotiating steps, tight corners and ladders. Can be set at different heights on the bumper.

4. **Bumper:** Protects the extension pipe from damage whilst providing provision for the attachment of the deflector wheel.

Deflector Ring

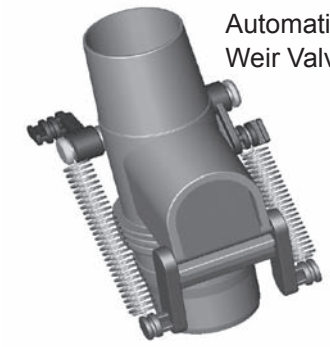
Bumper

5. **Flow Meter:** Allows you to determine the basic flow of your pump.

6. **Automatic Weir Valve:** Allows you to regulate the flow rate through the cleaner for best performance in your pool.

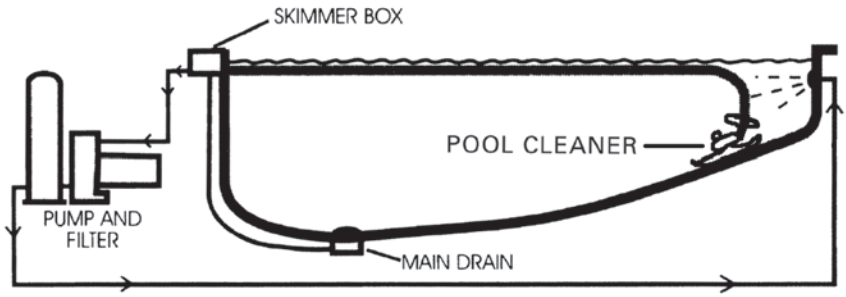
Flow Meter

Automatic Weir Valve



Step 1: Pre-installation of your Frill-NeckWIZARD® Pool Cleaner

Before you begin to install the Frill-NeckWIZARD® it is important you have a basic understanding of how the pool water flows from the skimmer, through the pool pump and filter returning to the pool. Below is a diagram of a typical pool with standard equipment showing how the water usually flows. If you are still unsure, simply refer to your local pool professional for assistance.



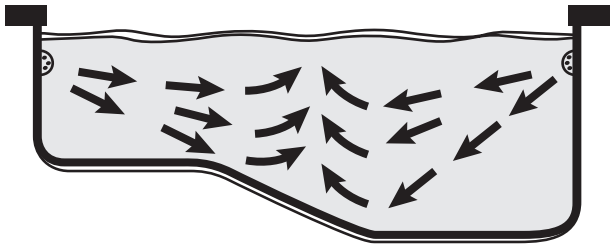
Step 2: Preparing your Pool for the Frill-NeckWIZARD®

A. Clean the filter and empty the skimmer baskets

B. Completely close off main drain and / or second skimmer box

C. Ensure the pool water is chemically balanced

D. Adjust water returns jets sideways to minimise turbulence which can influence the hose, and the free movement of the Frill-NeckWIZARD®

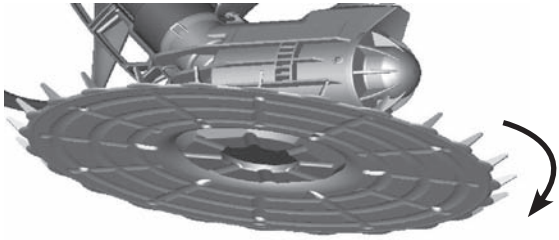


NOTE: Some skimmer boxes require the use of an expanding or threaded plug to effectively close off the main drain line. If you are unsure, simply ask to your local pool professional.

Step 3: Assembling the Cleaning Head

A. Fit the Cleaning Frill over the base and footpad of your Frill-NeckWIZARD®. Ensure that the word “TOP” is facing upwards.

B. Make sure that the Frill rotates freely once fitted.

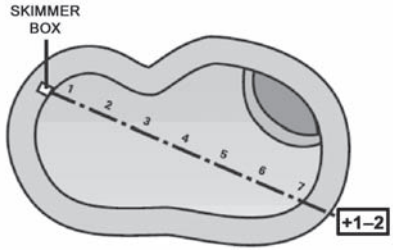


Step 4: Setting Up the Hoses

A. Firmly connect the hose sections together with enough lengths to reach from the skimmer box to the furthest point in the pool, plus additional 1-2 lengths. For a secure fit the female socket must cover the 4th ring (corrugation) of the male end.

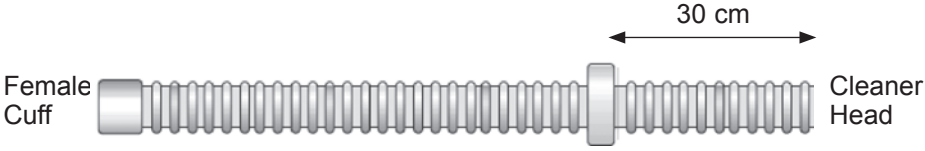
If the furthest point from the skimmer box is the steps, use the lowest step as the furthest point.

NOTE: If you require extra lengths, please contact your Frill-NeckWIZARD® dealer and refer to spare parts code on page 15.

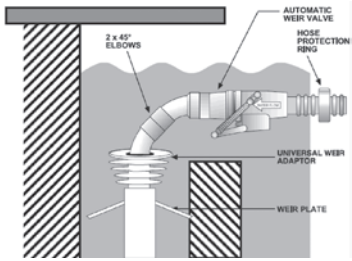


Female cuff Male cuff

B. Slide the hose weight ring over the first hose (that will connect onto the cleaner head) and position it approximately 30cm up from the male end.



C. Place the hose protector ring approximately 10cm from the female end of the last hose (closest to the skimmer box). The position can be adjusted later for best hose protection.



Step 5: Setting Up the Weir (Skimmer Box Connection)

A. Ensure that the pump is switched OFF.

B. Place the Universal Weir Adaptor firmly into the weir / skimmer plate.

C. Connect 2 x 45 elbows to the weir adaptor and insert the weir valve into it. Ensure the “Water Flow” arrow on the side of the valve is pointing towards the skimmer plate and the valve bypass flap is pointing downwards.

Step 6: Checking the Flow

Use the flow meter supplied to measure the flow going through your Frill-NeckWIZARD® before you attach the cleaning head.

A. Attach the flow meter to the first length of hose (that connects to the cleaning head).

B. Feed the cleaner hose vertically in to the pool so that it fills with water.

Helpful Tip: *Place the end of the hose over a return jet to quickly fill the hose with water.*

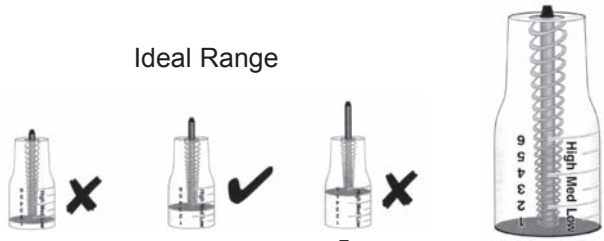
C. Connect female cuff (fitted with hose protector) to the weir valve.

D. Submerge the flow meter and switch ON the pool pump.

E. Read the location of the black disc. For optimum cleaning performance the reading on the flow meter scale should be 3-4 (MEDIUM).

F. If flow is too high or too low, refer to Step 8 - Correct Speed and Performance.

NOTE: If flow is too low, it will affect the performance of your cleaner. If flow is too high, premature failure of the engine unit may occur.



Step 7: Connecting the Frill-NeckWIZARD®

A. Feed the cleaner hose vertically in to the pool so that it fills with water.

B. Submerge the Frill-NeckWIZARD® cleaner head under water and rotate to allow any air to escape (bubbles will be released)

C. Push the male cuff end of the hose firmly onto the outer extension pipe of the cleaner head of the Frill-NeckWIZARD®.

D. Connect female cuff (fitted with hose protector) to the weir valve.

E. Lower the cleaner head gently and gradually into the pool

F. Switch the pump on and watch the WIZARD clean like magic!

Step 8: Fine Tuning

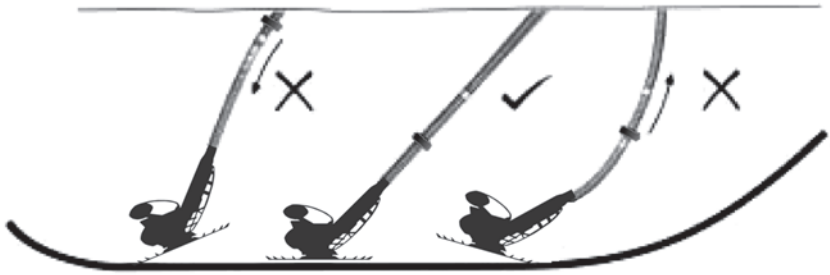
Correcting the Angle of the Cleaner Head

A. The pool cleaner must be angled so that the Cleaning Frill is flush with the pool surface.

B. The hose weight is used to neutralise the buoyancy of the pool hoses.

C. Correcting the angle of the head must be done in the deepest area of the pool.

D. Adjust the hose weight up or down to ensure that the Cleaning Frill sits flush with the pool surface.



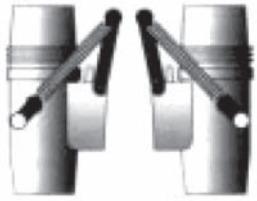
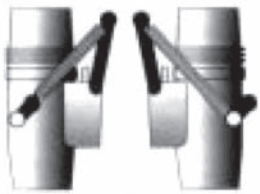
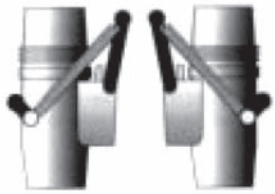
Correct Speed and Performance

A. The auto weir valve has 3 settings – high, medium or low.

B. The auto weir valve is preset at the factory to achieve maximum cleaning ability on the medium setting.

C. Only adjust the auto weir valve setting if dissatisfied with pool cleaner performance – see table on page 9.

PERFORMANCE	CAUSE	CORRECTION
The WIZARD is moving too fast and / or is climbing above water level	Too much suction	Adjust springs on automatic weir valve to Low setting
The WIZARD is moving too slowly and / or not climbing the low walls	Not enough suction	Adjust springs on automatic weir valve to High setting

LEFT VIEW / RIGHT VIEW	LEFT VIEW / RIGHT VIEW	LEFT VIEW / RIGHT VIEW
 LOW SETTING	 MEDIUM SETTING	 HIGH SETTING
Both springs are connected to the button on the free end of the rotating arm (both springs are at minimum stretch)	The left spring is connected to the free end of the rotating arm and the right spring is connected to the fixed button (one spring is short and one spring is long).	Both springs are connected to the fixed buttons of the rotating arms (both springs are at maximum stretch)

Fitting the Deflector Ring

A. The deflector ring enables the pool cleaner to manoeuvre itself away from pool steps and severe pool wall angles.

B. Position the deflector ring by clipping it into one of the three positions on the bumper below the lowest step of the pool.

Improving Suction Performance

Your Frill-NeckWIZARD® has been supplied with an alternative footpad (Dark Silver / without channels) that is designed to give better suction on slippery pool surfaces such as fibreglass, gel coat, vinyl liners and tiles. Simply remove the standard footpad and fit the alternative footpad for better suction performance.

Correcting Pool Surface Coverage

All return jets should be adjusted sideways however it is sometimes possible to adjust the flow from your return jets so as to guide the Frill-NeckWIZARD® away from steps, ladders and corners.

Caring for your Frill-NeckWIZARD®

DO NOT EVER:

1. Remove the Frill-NeckWIZARD® from the pool while the pump is running as this will introduce air to the pump and cause it to lose Prime.
2. Put any oil, grease or other lubricants on the engine unit. Water is the only lubricant required.
3. Leave the pool cleaner in the pool when "shocking" it with aggressive chemical treatments. This could lead to chemical damage.
4. Store cleaner hose in a coiled position. It is manufactured using special materials which enables hose memory and may cause the hose to lie awkwardly on the water preventing the Frill-NeckWIZARD® from moving freely around the pool.

Maintenance & Service Tips

Operating Time: It is good practice to operate your Frill-NeckWIZARD® for the amount of time required to clean your pool only, to maximise the life of the product.

Ladder (Above Ground Pools): To prevent Frill-NeckWIZARD® being caught behind ladders in above ground pools, the ladder could be removed when the Frill-NeckWIZARD® is operating, or an obstacle placed on pool floor on both sides of the ladder feet to prevent Frill-NeckWIZARD® moving behind the ladder.

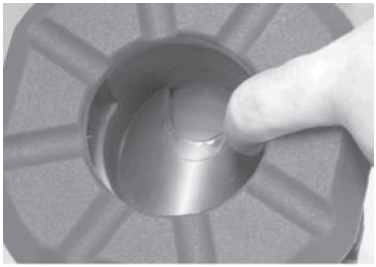
Remove Frill-NeckWIZARD® pool cleaner when backwashing: To allow optimum flow rate through filter and to avoid debris clogging the filter backwash system.

Protect the Frill-NeckWIZARD®: When not in use, store in a safe, shaded area with the hoses laid straight.

Removing trapped debris from the Engine Unit: Removing trapped debris is simple.

A. Recover the cleaner head and rotate it while still submerged in the water to show the underside and throat.

B. Check for large, trapped debris in the throat of the cleaner. If there is trapped debris, remove it by using your finger to move the rubber ball back and forth until the obstruction is removed.



Removing and replacing the Engine Unit: The engine unit is the heart of the Frill-NeckWIZARD® and the ball beats up to 7 times per second as it propels the cleaner around your pool.

The engine unit or just the rubber ball may require replacement if:

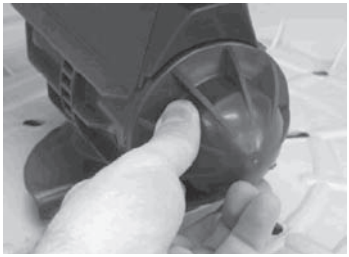
- It has wear from many years of operation
- It has been running at too high a speed
- Has suffered from attack from unbalanced water chemistry
- Has been damaged by large debris such as sticks

ENGINE UNIT REMOVAL

A. Unscrew the back nut two full turns in an anticlockwise direction.

B. Firmly hit the back nut with the palm of your hand forcing it towards the main body. Remove the back nut by continuing to unscrew it.

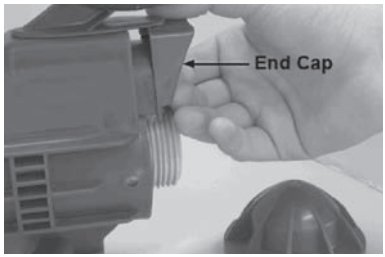
A

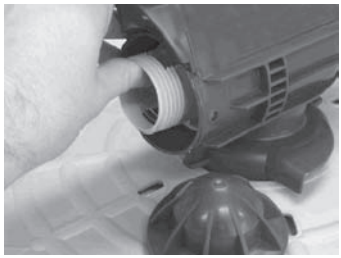


B

C. Remove the end cap.

D. Use your finger to angle the engine unit slightly down and then remove it.

C 

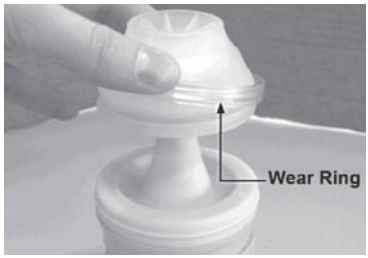
D 

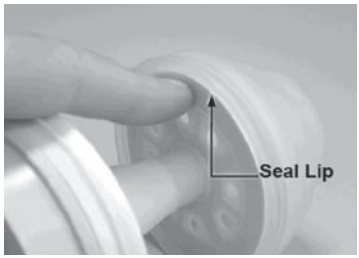
RUBBER BALL REPLACEMENT

A. Pull the clear Fastening / Wear Ring down, away from the ball. Be careful not to damage the ring.

B. Peel the ball off the engine unit by lifting it from the seal lip.

C. Replace the rubber ball if necessary and then slip the fastening ring back over the top. The four small pins should be facing towards the engine unit.

A 

B 

ENGINE UNIT REPLACEMENT

A. Rinse the engine unit with water before refitting.

B. Align the two side nipples of the engine unit with the holes in the sides of the main body.

C. Insert the engine unit and snap two nipples in to the holes.

D. Refit the end cap.

E. Firmly screw the back nut back onto the engine unit in a clockwise direction.

Troubleshooting

Problem 1: Frill-NeckWIZARD® is not working/moving too slowly:	
Cause	**Solution / Action**
Pump not switched on	Check if the pump is ON and / or primed. If not, turn ON and wait for it to prime
Lack of suction or engine unit obstruction	Remove obstruction from engine unit. See maintenance tips on page 11 and 12
	Ensure the cleaner hose is assembled tightly
	Adjust the automatic weir valve to medium or high setting
	Clean the filter and empty the skimmer baskets
	Ensure the universal weir adaptor is seated properly in the skimmer vacuum plate
	Ensure the vacuum plate is correctly seated in the skimmer
	Check that pump is in good working order
Problem 2: Frill-NeckWIZARD® is moving too fast/always up the walls:	
Pump suction too high	Adjust automatic weir valve to a lower setting
Problem 3: Frill-NeckWIZARD® will not climb walls:	
Pump suction too low	Adjust automatic weir valve to a higher setting
	Clean the filter and empty the skimmer baskets
Problem 4: Frill-NeckWIZARD® does not clean the whole pool:	
Not enough hose	Add more hose sections. Refer to Step 4 of instructions
Turbulence from return jets affecting free movement of hose	Adjust the return jet flow sideways so it doesn't influence the direction of the hoses
Problem 5: Frill-NeckWIZARD® moves in a repetitive pattern:	
The hose may be influencing direction	Adjust the return jet flow sideways so it doesn't influence the direction of the hoses
	Twist each hose a half-turn in the opposite direction to each connection point
Hose is set in a coiled position	Straighten hose and pour hot water over it to relieve hose memory
Flow too high	If water flow is too high it may stiffen the hoses. Change automatic weir valve to a lower setting.

...cont. overleaf

Troubleshooting continued

Problem 6: Air bubbles are noticeable in return jets:	
Cause	**Solution / Action**
Air has been introduced into the system	Ensure the cleaner hose is assembled tightly
	Ensure cleaner head is not removed from the water while pump is running
	Ensure the automatic weir valve flap points towards the bottom of the pool and is under water.
	Ensure the hoses are not damaged.

Accessories

Part	Description	Davey Code
Large Deflector Ring	Is installed on to the hose and is designed to assist the Frill-NeckWIZARD in avoiding stairs, difficult corners or ladders in above ground Pools.	32605
In-line Leaf Snatcher	Is installed on the hose line and catches large leaves and debris before they get to the pump, preventing build up in the pump basket. This is ideal for pools with heavy leaf litter and where the cleaner is connected to a dedicated (unfiltered) vacuum port.	M5975

Spare Parts

Part	Davey Code
Surface Cleaning Frill	401819
Standard Footpad (Silver)	401820
Footpad for slippery surfaces (Dark Silver)	401821
Bumper	401822
Deflector Ring	401827
Engine Unit	M5958
Engine Rubber Ball	M5959
Ball Ring	M5970
Grey Cleaner Hose x 12	M5910ST
Grey Cleaner Hose x 1	M5911ST
Hose Protector Ring	M5963
Hose Weight Ring	M5964
Weir Elbow x 45 degrees	M5966
Automatic Weir Valve	M5967
Universal weir Adaptor	M5972

NOTES

DAVEY WATER PRODUCTS GUARANTEE FOR AUSTRALIA & NEW ZEALAND

This Davey product is guaranteed to be free of material or manufacturing defects at the time of original purchase. Should the cleaner head fail as a result of such defects within 3 years from the original purchase, the product will be repaired free of charge. **NOTE:** Hose guaranteed for 1 year.

TERMS AND CONDITIONS

1. This guarantee applies to all states and territories of Australia and New Zealand only and is subject to the provisions of the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and the Consumer Guarantees Act 1993 (NZ) as applicable.
2. The guarantee period commences on the date of original purchase of the equipment. Evidence of this date of original purchase must be provided when claiming repairs under guarantee. It is recommended you retain all receipts in a safe place.
3. This guarantee does not cover discolouration of the pool cleaner caused by a reaction with pool water chemicals. The performance of the Frill-NeckWIZARD® is not affected by discoloration.
4. This guarantee does not cover damage to or failure of the unit due to pool water chemistry balance or over chlorination.
5. This guarantee does not cover the replacement of failed components caused by improper installation, misuse, neglect or tampering by unauthorised service persons.
6. This guarantee covers parts and workshop labour only. Goods should be forwarded, with proof of date of original purchase, to an Authorised Davey Service Centre freight paid. Any travel and removal/reinstalling charges for goods repaired infield will be to the owners account. Guarantee may be denied on goods not readily accessible for service personnel or mounted on exterior walls above single storey level.
7. The guarantee for commercial applications such as hotels, motels, caravan parks, health clubs, public pools etc. is for 12 months (1 year) only, subject to equipment sizing in accordance with Davey's recommendations.
8. This guarantee is subject to due compliance by the original purchaser with all directions and conditions set out in the Installation and Operating Instructions. Failure to comply with these instructions, damage or breakdown caused by fair wear and tear, negligence, misuse, incorrect installation, chemical or additives in the water, inadequate protection against freezing, rain or other adverse weather conditions, corrosive or abrasive water, lightning or high voltage spikes or through unauthorised persons attempting repairs are not covered under guarantee. The product must only be connected to the voltage shown on the nameplate.
9. Without limiting the original purchaser's entitlements under the Trade Practices Act (Aust.), the Goods & Consumer Protection Legislation of the various Australian states, or the Consumers Guarantee Act 1993 (NZ), Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from the product or any defect.
10. Where the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and the Consumers Guarantee Act 1993 (NZ) does not apply. Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever suffered by the purchaser arising directly or indirectly from the product or any defect and the purchaser shall indemnify Davey against any claim by any other person whatsoever in respect of any such loss, damage or injury.
11. Nothing in this guarantee is intended to have the effect of contracting out of the provisions of the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and Consumers Guarantee Act 1993 (NZ) except to the extent permitted by the various Acts and this guarantee is to be modified to the extent necessary to give effect to that intention.
12. Davey may be collecting personal information from you in order to provide you with a service. Davey Water Products Pty Ltd promises only to use this information in accordance with the Provisions of the Privacy Act 1988 (Cth) and the Privacy Policy of Davey Water Products Pty Ltd which is available at davey.com.au.

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